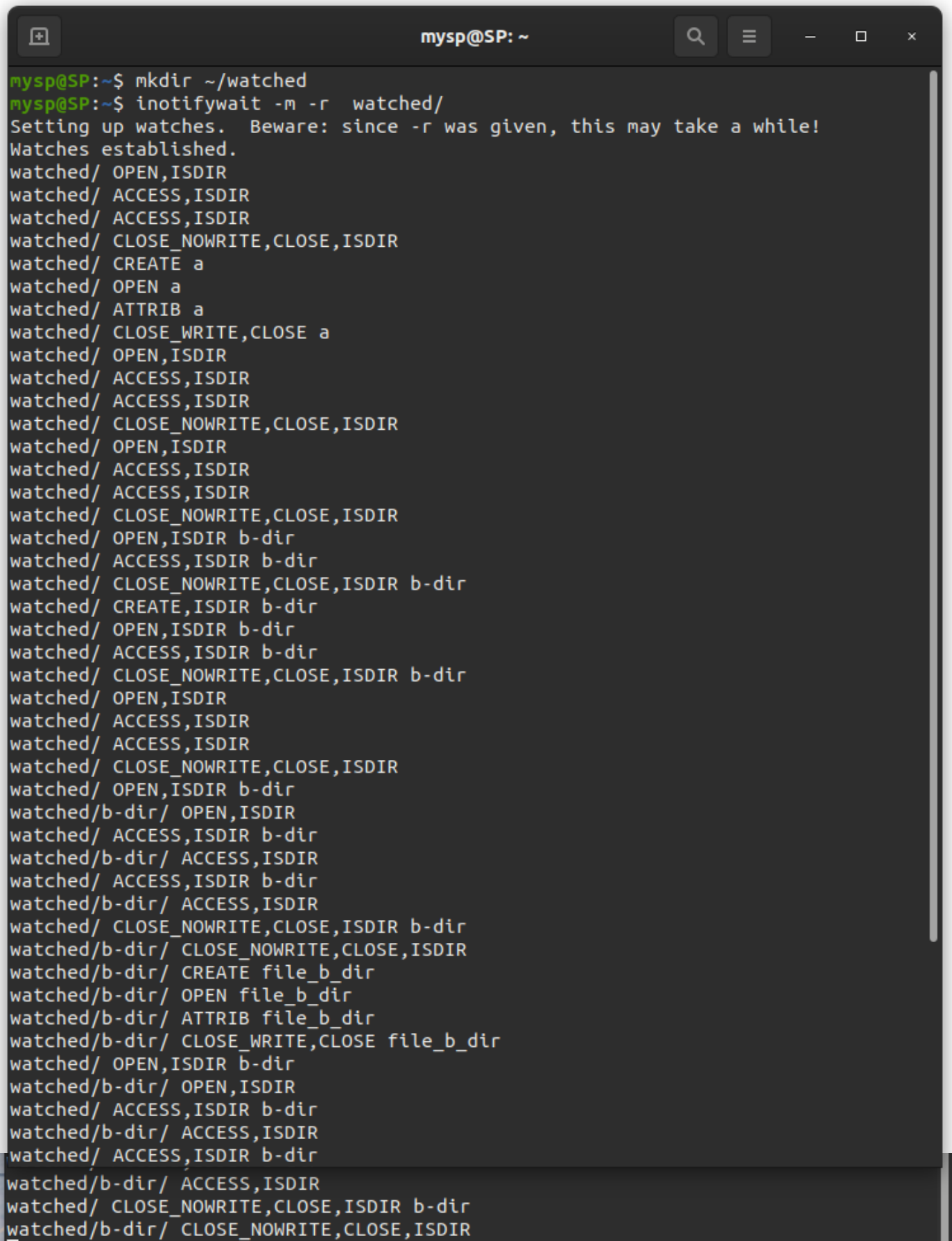


1. 請用螢幕截圖的方式將「丁~辛」放到你的報告中

丁. 開啟另一個terminal，在watched目錄裡面建立檔案，例如使用『touch a』，建立目錄，例如使用『mkdir b-dir』，進入b-dir『cd b-dir』在b-dir內建立一個檔案『touch file_in_bdir』，看看inotifywait有哪些訊息

A terminal window titled 'mysp@SP: ~' with standard window controls. The terminal shows the execution of 'mkdir ~/watched' and 'inotifywait -m -r watched/'. The output of inotifywait lists various file system events for the watched directory and its subdirectory 'b-dir'. The events include directory operations (OPEN, ACCESS, CLOSE_NOWRITE, CREATE, ATTRIB, CLOSE_WRITE) and file operations (OPEN, ACCESS, CLOSE_NOWRITE, CREATE, ATTRIB, CLOSE_WRITE) for files 'a' and 'file_b_dir'.

```
mysp@SP:~$ mkdir ~/watched
mysp@SP:~$ inotifywait -m -r watched/
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ CREATE a
watched/ OPEN a
watched/ ATTRIB a
watched/ CLOSE_WRITE,CLOSE a
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR b-dir
watched/ ACCESS,ISDIR b-dir
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/ CREATE,ISDIR b-dir
watched/ OPEN,ISDIR b-dir
watched/ ACCESS,ISDIR b-dir
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ OPEN,ISDIR b-dir
watched/b-dir/ OPEN,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/b-dir/ CREATE file_b_dir
watched/b-dir/ OPEN file_b_dir
watched/b-dir/ ATTRIB file_b_dir
watched/b-dir/ CLOSE_WRITE,CLOSE file_b_dir
watched/ OPEN,ISDIR b-dir
watched/b-dir/ OPEN,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
```

戊. 在b目錄底下執行vim，看看會出現什麼樣的訊息

The image displays three sequential terminal window screenshots, labeled 1, 2, and 3, showing the output of the `inotifywait` command monitoring directory changes in a directory named `watched/`.

Screenshot 1: Shows the initial setup of the command `inotifywait -m -r watched/`. It displays the message "Setting up watches. Beware: since -r was given, this may take a while!" followed by "Watches established." The first few events are listed, including `watched/ OPEN,ISDIR b-dir` and `watched/b-dir/ OPEN,ISDIR`.

Screenshot 2: Shows a continuous stream of events, including `watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir` and `watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR`.

Screenshot 3: Shows the end of the stream, with the final event being `watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR`.

己. cat file_in_bdir會出現什麼訊息

```
mosp@SP:~$ inotifywait -m -r watched
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR b-dir
watched/b-dir/ OPEN,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/b-dir/ OPEN file_b_dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE file_b_dir
█
```

庚.echo hello >> file_in_bdir會出現什麼訊息

```
mosp@SP:~$ inotifywait -m -r watched
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/b-dir/ OPEN file_b_dir
watched/b-dir/ MODIFY file_b_dir
watched/b-dir/ CLOSE_WRITE,CLOSE file_b_dir
watched/ OPEN,ISDIR b-dir
watched/b-dir/ OPEN,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
█
```

辛.『sudo inotifywait -m -r /』會出現什麼訊息

```
mosp@SP:~$ inotifywait -m -r watched
Setting up watches. Beware: since -r was given, this may take a while!
Watches established.
watched/ OPEN,ISDIR
watched/ ACCESS,ISDIR
watched/ OPEN,ISDIR b-dir
watched/b-dir/ OPEN,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ ACCESS,ISDIR b-dir
watched/b-dir/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR b-dir
watched/b-dir/ CLOSE_NOWRITE,CLOSE,ISDIR
watched/ ACCESS,ISDIR
watched/ CLOSE_NOWRITE,CLOSE,ISDIR
█
```